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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/670,760	09/27/2000	Luis Felipe Cabrera	MSFT-0176/150795.1	6145	
41505	7590 01/04/2006		EXAMINER		
WOODCOCK WASHBURN LLP (MICROSOFT CORPORATION) ONE LIBERTY PLACE - 46TH FLOOR			THAI, HANH B		
PHILADELPHIA, PA 191			ART UNIT	PAPER NUMBER	
	•		2163		

DATE MAILED: 01/04/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicatio	n No.	Applicant(s)				
	Office Action Summary		0 .	CABRERA, LUIS FELIPE				
				Art Unit				
		Hanh B. Th		2163				
Period fo	The MAILING DATE of this communication or Reply	appears on the	cover sheet with the c	orrespondence ac	idress			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1)⊠	Responsive to communication(s) filed on a	mendment filed	10/19/05.					
·	a)⊠ This action is FINAL . 2b)□ This action is non-final.							
3)	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims							
4)⊠	Claim(s) 1-34 is/are pending in the applicat	tion.						
	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)	5) Claim(s) is/are allowed.							
6)⊠	6)⊠ Claim(s) 1-34 is/are rejected.							
7)	Claim(s) is/are objected to.							
8)[Claim(s) are subject to restriction an	d/or election re	quirement.					
Applicati	on Papers							
9)[The specification is objected to by the Exam	niner.		•				
10))☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)	11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority ι	ınder 35 U.S.C. § 119							
_	2) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:							
	1. Certified copies of the priority docume	ents have been	received.					
	2. Certified copies of the priority documents have been received in Application No							
	3. Copies of the certified copies of the priority documents have been received in this National Stage							
	application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.								
Attachmen	t(s)							
	e of References Cited (PTO-892)		4) Interview Summary	(PTO-413)				
2) 🔲 Notic	e of Draftsperson's Patent Drawing Review (PTO-948)		Paper No(s)/Mail Da	te				
	nation Disclosure Statement(s) (PTO-1449 or PTO/SB/ r No(s)/Mail Date	,	5)	atent Application (PTC	D-152)			

DETAILED ACTION

The following is a Final Office Action in response to the communication filed October 19, 2005. Claims 1-34 are pending in this application.

Response to Arguments

- 1. Applicant's arguments filed October 19, 2005 have been fully considered but they are not persuasive.
- 2. Regarding claims 1 and 15 applicant argues (page 4): "neither Zaremba nor Stevens, taken alone or in combination, teach or suggest at least generating a full backup file for a set of objects, then generating incremental file (s) for the set of objects wherein each of the incremental file(s) is associated with the set of objects, as recited in claim 1, and similarly in claim 15." Examiner respectfully disagrees.

Zaremba clearly discloses generating a full backup file for a set of object (col.2, lines 26-44 and col.4, lines 8-67, Zaremba. A set of objects can contain only one object or more), generating incremental file for the set of objects wherein each of the incremental file is associated with the set of objects (col.4, lines 47-65 and col.5, line 47 to col.16, line 11, Zaremba).

Regarding claims 22 and 32 applicant argues (page 5): "neither Zaremba nor Stevens, taken alone or in combination, teach or suggest at least a plurality of storage components for the storage of backup information for a plurality of target objects in the form of full, incremental and cumulative backup information, wherein the incremental and cumulative backup information is associated with the collection of said plurality of target object as recited in claims 22 and 32." Examiner respectfully disagrees.

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Zaremba clearly discloses a plurality of storage components for the storage of backup information for a plurality of target objects in the form of full, incremental and cumulative backup information, wherein the incremental and cumulative backup information is associated with the collection of said plurality of target object (see col. 1, lines 45-49 and col. 2, lines 26-61; col.4, lines 4-67; col.5, line 13 to col. 6, line 11 and col.8, lines 32-46, Zaremba). Furthermore, the claimed "collection of said plurality of target objects" in light of the specification pages 3 and 9 reads on target object of Zaremba.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which the subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-2, 4-13, 15, 17-30, 32 and 34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Zaremba (U. S. Patent no. 6,647,399) of record and further view of Stevens (U. S. Patent no. 6,145,088) of record.

Regarding claims 1 and 15, Zaremba discloses a method for generating backup files in a computer system, comprising:

- generating a full backup file corresponding to a first time for a set of objects in the computer system (abstract; col.2, lines 26-44 and col.4, lines 8-67, Zaremba);

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- generating at least one incremental file for said set of object after the first time, wherein each of the incremental file(s) is associated with the set of objects (abstract; col.2, lines 21-27 and col.4, lines 47-65, Zaremba);
- identifying a target object within said set of object for the generation of cumulative backup files (abstract; col.2, lines 38-41 and col.5, lines 40-44, Zaremba); and
- generating at least one cumulative backup file corresponding to a second time, after the first time, for the target object (abstract; col.6, line 63-col. 7, line 21 and col.8, lines32-44, Zaremba).

Zaremba, however, does not disclose that the backup file is performed off-line. Stevens discloses an apparatus for remote recovery including the backup file that can be performed off-line (see col. 1, lines 49-56, Stevens). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Zaremba. The motivation of doing so would have been to provide potentially relief for data loss (column 1, lines 49-56, Stevens).

Regarding claim 2, Zaremba/Stevens combination further discloses that the generating of the at least one cumulative backup file includes analyzing at least one incremental file generated between the first and second time (abstract; col.5, lines 40-44; col. 7, lines 5- 21 and col.8, lines 32-44, Zaremba).

Regarding claim 4, Zaremba/Stevens combination further discloses restoring the target object to the second time by processing the full backup file and the at least one cumulative backup file (col. 7, lines 5- 21 and col.8, lines32-44, Zaremba).

Regarding claim 5, Zaremba/Stevens combination discloses that the backup or restore the target object the second time after the first time (abstract; col.6, line 63-col. 7, line 21 and col.8, lines 32-44, Zaremba). Since the combination system can reconstruct the target objects the second time (see col. 2, lines 32-49, Zaremba). It is clearly operated to reconstruct the third time as well as many times thereafter.

Regarding claims 6-7, Zaremba/Stevens combination further discloses that the identifying includes identifying a related subset of files as the target object for a cumulative backup file (col.2, lines 38-41 and col.5, lines 40-44, Zaremba).

Regarding claim 8, Zaremba/Stevens combination further discloses the identifying includes identifying a directory as the target object for a cumulative backup file (abstract; col.2, lines 38-41 and col.5, lines 40-44, Zaremba).

Regarding claim 9, Zaremba/Stevens combination further discloses that a user identifies the target object (col.2, line 62-col. 3, line 5, Zaremba).

Regarding claim 10, Zaremba/Stevens combination further discloses the monitoring and analyzing restore operations in the computer system (col.3, lines 45-53 and col. 6, lines 4-10, Pongracz).

Regarding claim 11, Zaremba/Stevens combination further discloses the identifying of the target object is designed to meet a condition of bounded restore time for the target object (1, lines 15-32, Zaremba).

Regarding claim 12, Zaremba/Stevens combination further discloses controlling the frequency of generating at least one of a full, incremental and cumulative backup (abstract; col. 7, lines 5-21 and col.8, lines32-44, Zaremba).

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Regarding claim 13, Zaremba/Stevens combination further discloses a computer-readable medium having computer-executable instructions (col.3, lines 47-60, Zaremba).

Regarding claim 17, Zaremba/Stevens combination further discloses that the generating of said at least one cumulative backup file is performed off-line (see Fig. 2 and col. 1, lines 49-56, Stevens).

Regarding claim 18, Zaremba/Stevens combination further discloses the monitoring and analyzing restore operations (col. 2, lines 50-61, Zaremba).

Regarding claim 19, Zaremba/Stevens combination further discloses that the identifying of the target object is designed to meet a condition of bounded restore time (col. 2, lines 32-49, Zaremba).

Regarding claims 20-21, Zaremba/Stevens combination further the frequency of generating at least one of a full, incremental and cumulative backup (abstract; col. 7, lines 5-21 and col.8, lines 32-44, Zaremba).

Regarding claims 22 and 32, Zaremba discloses a computer system (Fig. 1) comprising:

- a plurality of servers having at least one connection to a communications network (see col. 3, line 46 to col. 4, line 7, Zaremba); and
- a plurality of storage components for the storage of backup information for a plurality of target objects in the form of full, incremental and cumulative backup information (see col. 1, lines 45-49; col. 2, lines 26-61; col.4, lines 4-67; col.5, line 13 to col. 6, line 11 and col.8, lines 32-46, Zaremba);

Zaremba does not disclose that the backup information wherein the backup can be performed off-line. Stevens discloses an apparatus for remote recovery including the backup file

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that can be performed off-line (see Fig. 2 and col. 1, lines 49-56, Stevens). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Zaremba to include the claim feature. The motivation of doing so would have been to provide potentially relief for data loss (col. 1, lines 49-56, Stevens).

Regarding claim 23, Zaremba/Stevens combination discloses reconstructing of the target objects to the second time (see col. 2, lines 32-49, Zaremba).

Regarding claim 24, Zaremba/Stevens combination does not disclose the reconstructing of the plurality of target objects to a third time. However, since the combination system can reconstruct the target objects the second time (see col. 2, lines 32-49, Zaremba). It is clearly operated to reconstruct the third time as well as many times thereafter.

Regarding claim 25, Zaremba/Stevens combination discloses that the plurality of storage components store backup information for the plurality of target objects (see col. 2, lines 31-33, Zaremba).

Regarding claim 26, Zaremba/Stevens combination discloses that the plurality of storage components store backup information for a volume (see col. 5, lines 4-9, Zaremba).

Regarding claim 27, Zaremba/Stevens combination discloses that the plurality of storage components store backup information for a directory (see col. 6, line 63 to col. 7, line 3, Zaremba).

Regarding claim 28, Zaremba/Stevens combination discloses that at least one of the plurality of servers generates the backup information in response to monitoring and analyzing an inefficiency of a system restore operation (see col. 6, lines 4-10, Zaremba).

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Regarding claim 29, Zaremba/Stevens combination discloses a condition of bounded restore time for the plurality of target objects (see 1, lines 15-32, Zaremba).

Regarding claim 30, Zaremba/Stevens combination discloses the generation of a cumulative backup file includes the analysis of at least one incremental file (see col. 1, lines 45-49 and col. 2, lines 26-61, Zaremba)

Regarding claim 34, Zaremba/Stevens combination disclose that the storage of backup information wherein the backup can be performed off-line (see Fig. 2 and col. 1, lines 49-56, Stevens).

4. Claim 14 is rejected under 35 U.S.C. 103(a) as being unpatentable over Zaremba (U. S. Patent no. 6,647,399) of record in view of Stevens (U. S. Patent no. 6,145,088) of record and further in view of Fletcher et al. (U. S. Patent no. 6,038,379) of record.

Regarding claim 14, the limitations of this claim have been noted in the rejection of claim 1. In addition, Zaremba/Stevens combination does not disclose "the storage block mappings for the target object" and "the change is stored in the format of MTF".

Fletcher, however, discloses a data backup and restores system for computer network including the claimed feature (see col. 6, lines 10-19 and col. 8, lines 18-36, Fletcher). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the teaching of Zaremba and Stevens. The motivation of doing so would have been to enhance the full backup and recovery system, for example, the capability of interchanging data between different operating system (see col. 2, lines 14-19, Fletcher).

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5. Claims 3, 16, 31 and 33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Zaremba (U. S. Patent no. 6,647,399) of record in view of Stevens (U. S. Patent no. 6,145,088) of record and further view of Pongracz et al. (U. S. Patent no. 6,073,128) of record.

Regarding claims 3, 16, 31 and 33, Zaremba/Stevens combination discloses all of the claimed limitations as discussed above, except that at least one incremental file is performed in reverse chronological order. Pongracz discloses a method for identifying files used to restore a file and is performed in reverse chronological order (see col.3, lines 45-49, Pongracz). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Zaremba/Stevens to include the claim feature as taught by Pongracz. The motivation of doing so would have been to provide a properly backup file system (see col.3, lines 36-39, Pongracz).

Conclusion

6. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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7. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Hanh B. Thai whose telephone number is 571-272-4029. The

examiner can normally be reached on 8 AM - 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Safet Metjahic can be reached on 571-272-4023. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Hanh B Thai

Examiner

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December 29, 2005

PRIMARY EXAMINER

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